

"Mass and Weight" Review:

$$12. F_g = m a_g$$

$$m = \frac{F_g}{a_g}$$

$$= \frac{600 \text{ N}}{9.8 \text{ m/s}^2}$$

$$= 61.2 \text{ kg}$$

$$13. F_g = m a_g$$

$$= (88)(9.8 \text{ m/s}^2)$$

$$= 862.4 \text{ N}$$

Chart:

$$F_g = m a_g$$

$$m = \frac{F_g}{a_g} = \frac{135 \text{ N}}{8.9 \text{ m/s}^2} = 15.2 \text{ kg}$$